



SEQUENCE LISTING

<110> Urbania, Stanislaw J.
Barker, Robert, N.

<120> ALLO- AND AUTO-REACTIVE T-CELL EPITOPES

<130> P097

<140> 09/857,097
<141> 1999-12-01

<150> 9826378.3
<151> 1998-12-01

<160> 152

<170> PatentIn Ver. 2.1

<210> 1
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Residues 2-16

<400> 1
Ser Ser Lys Tyr Pro Arg Ser Val Arg Arg Cys Leu Pro Leu Trp
1 5 10 15

<210> 2
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Residues 12-26

<400> 2
Cys Leu Pro Leu Trp Ala Leu Thr Leu Glu Ala Ala Leu Ile Leu
1 5 10 15

<210> 3
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE (R2 CE) Residues 22-36

<400> 3
Ala Ala Leu Ile Leu Leu Phe Tyr Phe Phe Thr His Tyr Asp Ala
1 5 10 15

<210> 4
<211> 15
<212> PRT

<213> Homo sapiens

<220>

<223> RhCE (R2 CE) Residues 32-46

<400> 4

Thr	His	Tyr	Asp	Ala	Ser	Leu	Glu	Asp	Gln	Lys	Gly	Leu	Val	Ala
1				5					10				15	

<210> 5

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhCE (R2 CE) Residues 42-56

<400> 5

Lys	Gly	Leu	Val	Ala	Ser	Tyr	Gln	Val	Gly	Gln	Asp	Leu	Thr	Val
1				5					10				15	

<210> 6

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhCE (R2 CE) Residues 52-66

<400> 6

Gln	Asp	Leu	Thr	Val	Met	Ala	Ala	Leu	Gly	Leu	Gly	Phe	Leu	Thr
1				5					10				15	

<210> 7

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhCE (R2 CE) Residues 62-76

<400> 7

Leu	Gly	Phe	Leu	Thr	Ser	Asn	Phe	Arg	Arg	His	Ser	Trp	Ser	Ser
1				5					10				15	

<210> 8

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhCE (R2 CE) Residues 72-86

<400> 8

His	Ser	Trp	Ser	Ser	Val	Ala	Phe	Asn	Leu	Phe	Met	Leu	Ala	Leu
1				5					10				15	

<210> 9
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE (R2 CE) Residues 82-96

<400> 9
Phe Met Leu Ala Leu Gly Val Gln Trp Ala Ile Leu Leu Asp Gly
1 5 10 15

<210> 10
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE (R2 CE) Residues 92-106

<400> 10
Ile Leu Leu Asp Gly Phe Leu Ser Gln Phe Pro Pro Gly Lys Val
1 5 10 15

<210> 11
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE (R2 CE) Residues 102-116

<400> 11
Pro Pro Gly Lys Val Val Ile Thr Leu Phe Ser Ile Arg Leu Ala
1 5 10 15

<210> 12
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE (R2 CE) Residues 112-126

<400> 12
Ser Ile Arg Leu Ala Thr Met Ser Ala Met Ser Val Leu Ile Ser
1 5 10 15

<210> 13
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE (R2 CE) Residues 122-136

<400> 13
Ser Val Leu Ile Ser Ala Gly Ala Val Leu Gly Lys Val Asn Leu
1 5 10 15

<210> 14
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE (R2 CE) Residues 132-146

<400> 14
Gly Lys Val Asn Leu Ala Gln Leu Val Val Met Val Leu Val Glu
1 5 10 15

<210> 15
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE (R2 CE) Residues 142-156

<400> 15
Met Val Leu Val Glu Val Thr Ala Leu Gly Thr Leu Arg Met Val
1 5 10 15

<210> 16
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE (R2 CE) Residues 152-166

<400> 16
Thr Leu Arg Met Val Ile Ser Asn Ile Phe Asn Thr Asp Tyr His
1 5 10 15

<210> 17
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE (R2 CE) Residues 162-176

<400> 17
Asn Thr Asp Tyr His Met Asn Leu Arg His Phe Tyr Val Phe Ala
1 5 10 15

<210> 18
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE (R2 CE) Residues 172-186

<400> 18
Phe Tyr Val Phe Ala Ala Tyr Phe Gly Leu Thr Val Ala Trp Cys
1 5 10 15

<210> 19
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE (R2 CE) Residues 182-196

<400> 19
Thr Val Ala Trp Cys Leu Pro Lys Pro Leu Pro Lys Gly Thr Glu
1 5 10 15

<210> 20
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE (R2 CE) Residues 192-206

<400> 20
Pro Lys Gly Thr Glu Asp Asn Asp Gln Arg Ala Thr Ile Pro Ser
1 5 10 15

<210> 21
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE (R2 CE) Residues 202-216

<400> 21
Ala Thr Ile Pro Ser Leu Ser Ala Met Leu Gly Ala Leu Phe Leu
1 5 10 15

<210> 22
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE (R2 CE) Residues 212-226

<400> 22
Gly Ala Leu Phe Leu Trp Met Phe Trp Pro Ser Val Asn Ser Pro
1 5 10 15

<210> 23

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhCE (R2 CE) Residues 222-236

<400> 23

Ser	Val	Asn	Ser	Pro	Leu	Leu	Arg	Ser	Pro	Ile	Gln	Arg	Lys	Asn
1				5					10				15	

<210> 24

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhCE (R2 CE) Residues 232-246

<400> 24

Ile	Gln	Arg	Lys	Asn	Ala	Met	Phe	Asn	Thr	Tyr	Tyr	Ala	Leu	Ala
1				5					10				15	

<210> 25

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhCE (R2 CE) Residues 242-256

<400> 25

Tyr	Tyr	Ala	Leu	Ala	Val	Ser	Val	Val	Thr	Ala	Ile	Ser	Gly	Ser
1				5					10				15	

<210> 26

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhCE (R2 CE) Residues 252-266

<400> 26

Ala	Ile	Ser	Gly	Ser	Ser	Leu	Ala	His	Pro	Gln	Arg	Lys	Ile	Ser
1				5					10				15	

<210> 27

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhCE (R2 CE) Residues 262-276

<400> 27

Gln Arg Lys Ile Ser Met Thr Tyr Val His Ser Ala Val Leu Ala
1 5 10 15

<210> 28

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhCE (R2 CE) Residues 272-286

<400> 28

Ser Ala Val Leu Ala Gly Gly Val Ala Val Gly Thr Ser Cys His
1 5 10 15

<210> 29

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhCE (R2 CE) Residues 282-296

<400> 29

Gly Thr Ser Cys His Leu Ile Pro Ser Pro Trp Leu Ala Met Val
1 5 10 15

<210> 30

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhCE (R2 CE) Residues 292-306

<400> 30

Trp Leu Ala Met Val Leu Gly Leu Val Ala Gly Leu Ile Ser Ile
1 5 10 15

<210> 31

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhCE (R2 CE) Residues 302-316

<400> 31

Gly Leu Ile Ser Ile Gly Gly Ala Lys Cys Leu Pro Val Cys Cys
1 5 10 15

<210> 32

<211> 15

<212> PRT

<213> Homo sapiens

<220>
<223> RhCE (R2 CE) Residues 312-326

<400> 32
Leu Pro Val Cys Cys Asn Arg Val Leu Gly Ile His His Ile Ser
1 5 10 15

<210> 33
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE (R2 CE) Residues 322-336

<400> 33
Ile His His Ile Ser Val Met His Ser Ile Phe Ser Leu Leu Gly
1 5 10 15

<210> 34
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE (R2 CE) Residues 332-346

<400> 34
Phe Ser Leu Leu Gly Leu Leu Gly Glu Ile Thr Tyr Ile Val Leu
1 5 10 15

<210> 35
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE (R2 CE) Residues 342-356

<400> 35
Thr Tyr Ile Val Leu Leu Val Leu His Thr Val Trp Asn Gly Asn
1 5 10 15

<210> 36
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE (R2 CE) Residues 352-366

<400> 36
Val Trp Asn Gly Asn Gly Met Ile Gly Phe Gln Val Leu Leu Ser
1 5 10 15

<210> 37

<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE (R2 CE) Residues 362-376

<400> 37
Gln Val Leu Leu Ser Ile Gly Glu Leu Ser Leu Ala Ile Val Ile
1 5 10 15

<210> 38
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE (R2 CE) Residues 372-386

<400> 38
Leu Ala Ile Val Ile Ala Leu Thr Ser Gly Leu Leu Thr Gly Leu
1 5 10 15

<210> 39
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE (R2 CE) Residues 382-396

<400> 39
Leu Leu Thr Gly Leu Leu Leu Asn Leu Lys Ile Trp Lys Ala Pro
1 5 10 15

<210> 40
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE (R2 CE) Residues 392-406

<400> 40
Ile Trp Lys Ala Pro His Val Ala Lys Tyr Phe Asp Asp Gln Val
1 5 10 15

<210> 41
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE (R2 CE) Residues 111-125

<400> 41
Phe Asp Asp Gln Val Phe Trp Lys Phe Pro His Leu Ala Val Gly

10

1 5

10

15

<210> 42
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE (R2 cE) Residues 403-417

<400> 42
Asp Asp Gln Val Phe Trp Lys Phe Pro His Leu Ala Val Gly Phe
1 5 10 15

<210> 43
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE (R1 Ce) Residues 2-16

<400> 43
Ser Ser Lys Tyr Pro Arg Ser Val Arg Arg Cys Leu Pro Leu Cys
1 5 10 15

<210> 44
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE (R1 Ce) Residues 12-26

<400> 44
Cys Leu Pro Leu Cys Ala Leu Thr Leu Glu Ala Ala Leu Ile Leu
1 5 10 15

<210> 45
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhCE (R1 Ce) Residues 212-226

<400> 45
Gly Ala Leu Phe Leu Trp Met Phe Trp Pro Ser Val Asn Ser Ala
1 5 10 15

<210> 46
<211> 15
<212> PRT
<213> Homo sapiens

<220>

<223> RhCE (R1 Ce) Residues 222-236

<400> 46

Ser	Val	Asn	Ser	Ala	Leu	Leu	Arg	Ser	Pro	Ile	Gln	Arg	Lys	Asn
1				5					10					15

<210> 47

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 52-66

<400> 47

Gln	Asp	Leu	Thr	Val	Met	Ala	Ala	Ile	Gly	Leu	Gly	Phe	Leu	Thr
1				5					10					15

<210> 48

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 62-76

<400> 48

Leu	Gly	Phe	Leu	Thr	Ser	Ser	Phe	Arg	Arg	His	Ser	Trp	Ser	Ser
1				5				10						15

<210> 49

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 92-106

<400> 49

Ile	Leu	Leu	Asp	Gly	Phe	Leu	Ser	Gln	Phe	Pro	Ser	Gly	Lys	Val
1			5					10						15

<210> 50

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 102-116

<400> 50

Pro	Ser	Gly	Lys	Val	Val	Ile	Thr	Leu	Phe	Ser	Ile	Arg	Leu	Ala
1				5					10					15

<210> 51

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 112-126

<400> 51

Ser Ile Arg Leu Ala Thr Met Ser Ala Leu Ser Val Leu Ile Ser
1 5 10 15

<210> 52

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 122-136

<400> 52

Ser Val Leu Ile Ser Val Asp Ala Val Leu Gly Lys Val Asn Leu
1 5 10 15

<210> 53

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 142-156

<400> 53

Met Val Leu Val Glu Val Thr Ala Leu Gly Asn Leu Arg Met Val
1 5 10 15

<210> 54

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 152-166

<400> 54

Asn Leu Arg Met Val Ile Ser Asn Ile Phe Asn Thr Asp Tyr His
1 5 10 15

<210> 55

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 162-176

<400> 55

Asn Thr Asp Tyr His Met Asn Met Met His Ile Tyr Val Phe Ala
1 5 10 15

<210> 56

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 172-186

<400> 56

Ile	Tyr	Val	Phe	Ala	Ala	Tyr	Phe	Gly	Leu	Ser	Val	Ala	Trp	Cys
1				5					10				15	

<210> 57

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 182-196

<400> 57

Ser	Val	Ala	Trp	Cys	Leu	Pro	Lys	Pro	Leu	Pro	Glu	Gly	Thr	Glu
1				5					10				15	

<210> 58

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 192-206

<400> 58

Pro	Glu	Gly	Thr	Glu	Asp	Lys	Asp	Gln	Thr	Ala	Thr	Ile	Pro	Ser
1				5					10				15	

<210> 59

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 212-226

<400> 59

Gly	Ala	Leu	Phe	Leu	Trp	Ile	Phe	Trp	Pro	Ser	Phe	Asn	Ser	Ala
1				5					10				15	

<210> 60

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 222-236

<400> 60
Ser Phe Asn Ser Ala Leu Leu Arg Ser Pro Ile Glu Arg Lys Asn
1 5 10 15

<210> 61
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhD Residues 232-246

<400> 61
Ile Glu Arg Lys Asn Ala Val Phe Asn Thr Tyr Tyr Ala Val Ala
1 5 10 15

<210> 62
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhD Residues 242-256

<400> 62
Tyr Tyr Ala Val Ala Val Ser Val Val Thr Ala Ile Ser Gly Ser
1 5 10 15

<210> 63
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhD Residues 252-266

<400> 63
Ala Ile Ser Gly Ser Ser Leu Ala His Pro Gln Gly Lys Ile Ser
1 5 10 15

<210> 64
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhD Residues 262-276

<400> 64
Gln Gly Lys Ile Ser Lys Thr Tyr Val His Ser Ala Val Leu Ala
1 5 10 15

<210> 65
<211> 15
<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 292-306

<400> 65

Trp	Leu	Ala	Met	Val	Leu	Gly	Leu	Val	Ala	Gly	Leu	Ile	Ser	Val
1				5					10				15	

<210> 66

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 302-316

<400> 66

Gly	Leu	Ile	Ser	Val	Gly	Gly	Ala	Lys	Tyr	Leu	Pro	Gly	Cys	Cys
1				5					10				15	

<210> 67

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 312-326

<400> 67

Leu	Pro	Gly	Cys	Cys	Asn	Arg	Val	Leu	Gly	Ile	Pro	His	Ser	Ser
1				5					10				15	

<210> 68

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 322-336

<400> 68

Ile	Pro	His	Ser	Ser	Ile	Met	Gly	Tyr	Asn	Phe	Ser	Leu	Leu	Gly
1				5					10				15	

<210> 69

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 332-346

<400> 69

Phe	Ser	Leu	Leu	Gly	Leu	Leu	Gly	Glu	Ile	Ile	Tyr	Ile	Val	Leu
1				5					10				15	

<210> 70

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 342-356

<400> 70

Ile	Tyr	Ile	Val	Leu	Leu	Val	Leu	Asp	Thr	Val	Gly	Ala	Gly	Asn
1				5					10				15	

<210> 71

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 352-366

<400> 71

Val	Gly	Ala	Gly	Asn	Gly	Met	Ile	Gly	Phe	Gln	Val	Leu	Leu	Ser
1				5					10				15	

<210> 72

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 392-406

<400> 72

Ile	Trp	Lys	Ala	Pro	His	Glu	Ala	Lys	Tyr	Phe	Asp	Asp	Gln	Val
1				5					10				15	

<210> 73

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhCE (R1 Ce) Residues 7-21

<400> 73

Arg	Ser	Val	Arg	Arg	Cys	Leu	Pro	Leu	Cys	Ala	Leu	Thr	Leu	Glu
1				5					10				15	

<210> 74

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhCE (R1 Ce) Residues 217-231

<400> 74
Trp Met Phe Trp Pro Ser Val Asn Ser Ala Leu Leu Arg Ser Pro
1 5 10 15

<210> 75
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhD Residues 57-71

<400> 75
Met Ala Ala Ile Gly Leu Gly Phe Leu Thr Ser Ser Phe Arg Arg
1 5 10 15

<210> 76
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhD Residues 67-81

<400> 76
Ser Ser Phe Arg Arg His Ser Trp Ser Ser Val Ala Phe Asn Leu
1 5 10 15

<210> 77
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhD Residues 97-111

<400> 77
Phe Leu Ser Gln Phe Pro Ser Gly Lys Val Val Ile Thr Leu Phe
1 5 10 15

<210> 78
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhD Residues 107-121

<400> 78
Val Ile Thr Leu Phe Ser Ile Arg Leu Ala Thr Met Ser Ala Leu
1 5 10 15

<210> 79
<211> 15
<212> PRT
<213> Homo sapiens

<220>

<223> RhD Residues 117-131

<400> 79

Thr Met Ser Ala Leu Ser Val Leu Ile Ser Val Asp Ala Val Leu
1 5 10 15

<210> 80

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 127-141

<400> 80

Val Asp Ala Val Leu Gly Lys Val Asn Leu Ala Gln Leu Val Val
1 5 10 15

<210> 81

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 147-161

<400> 81

Val Thr Ala Leu Gly Asn Leu Arg Met Val Ile Ser Asn Ile Phe
1 5 10 15

<210> 82

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 157-171

<400> 82

Ile Ser Asn Ile Phe Asn Thr Asp Tyr His Met Asn Met Met His
1 5 10 15

<210> 83

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 167-181

<400> 83

Met Asn Met Met His Ile Tyr Val Phe Ala Ala Tyr Phe Gly Leu
1 5 10 15

<210> 84

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 177-191

<400> 84

Ala Tyr Phe Gly Leu Ser Val Ala Trp Cys Leu Pro Lys Pro Leu
1 5 10 15

<210> 85

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 187-201

<400> 85

Leu Pro Lys Pro Leu Pro Glu Gly Thr Glu Asp Lys Asp Gln Thr
1 5 10 15

<210> 86

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 197-211

<400> 86

Asp Lys Asp Gln Thr Ala Thr Ile Pro Ser Leu Ser Ala Met Leu
1 5 10 15

<210> 87

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 207-221

<400> 87

Leu Ser Ala Met Leu Gly Ala Leu Phe Leu Trp Ile Phe Trp Pro
1 5 10 15

<210> 88

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 217-231

<400> 88

Trp Ile Phe Trp Pro Ser Phe Asn Ser Ala Leu Leu Arg Ser Pro
1 5 10 15

<210> 89
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhD Residues 227-241

<400> 89
Leu Leu Arg Ser Pro Ile Glu Arg Lys Asn Ala Val Phe Asn Thr
1 5 10 15

<210> 90
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhD Residues 237-251

<400> 90
Ala Val Phe Asn Thr Tyr Tyr Ala Val Ala Val Ser Val Val Thr
1 5 10 15

<210> 91
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhD Residues 257-271

<400> 91
Ser Leu Ala His Pro Gln Gly Lys Ile Ser Lys Thr Tyr Val His
1 5 10 15

<210> 92
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> RhD Residues 267-281

<400> 92
Lys Thr Tyr Val His Ser Ala Val Leu Ala Gly Gly Val Ala Val
1 5 10 15

<210> 93
<211> 15
<212> PRT
<213> Homo sapiens

<220>

<223> RhD Residues 297-311

<400> 93

Leu Gly Leu Val Ala Gly Leu Ile Ser Val Gly Gly Ala Lys Tyr
1 5 10 15

<210> 94

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 307-321

<400> 94

Gly Gly Ala Lys Tyr Leu Pro Gly Cys Cys Asn Arg Val Leu Gly
1 5 10 15

<210> 95

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 317-331

<400> 95

Asn Arg Val Leu Gly Ile Pro His Ser Ser Ile Met Gly Tyr Asn
1 5 10 15

<210> 96

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 327-341

<400> 96

Ile Met Gly Tyr Asn Phe Ser Leu Leu Gly Leu Leu Gly Glu Ile
1 5 10 15

<210> 97

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 337-351

<400> 97

Leu Leu Gly Glu Ile Ile Tyr Ile Val Leu Leu Val Leu Asp Thr
1 5 10 15

<210> 98

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 347-361

<400> 98

Leu Val Leu Asp Thr Val Gly Ala Gly Asn Gly Met Ile Gly Phe
1 5 10 15

<210> 99

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 387-401

<400> 99

Leu Leu Asn Leu Lys Ile Trp Lys Ala Pro His Glu Ala Lys Tyr
1 5 10 15

<210> 100

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 397-411

<400> 100

His Glu Ala Lys Tyr Phe Asp Asp Gln Val Phe Trp Lys Phe Pro
1 5 10 15

<210> 101

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> Rh50 GP Residues 1-15

<400> 101

Met Arg Phe Thr Phe Pro Leu Met Ala Ile Val Leu Glu Ile Ala
1 5 10 15

<210> 102

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> Rh50 GP Residues 11-25

<400> 102

Val Leu Glu Ile Ala Met Ile Val Leu Phe Gly Leu Phe Val Glu

1

5

10

15

<210> 103
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 21-35

<400> 103
Gly Leu Phe Val Glu Tyr Glu Thr Asp Gln Thr Val Leu Glu Gln
1 5 10 15

<210> 104
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 31-45

<400> 104
Thr Val Leu Glu Gln Leu Asn Ile Thr Lys Pro Thr Asp Met Gly
1 5 10 15

<210> 105
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 41-55

<400> 105
Pro Thr Asp Met Gly Ile Phe Phe Glu Leu Tyr Pro Leu Phe Gln
1 5 10 15

<210> 106
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 51-65

<400> 106
Tyr Pro Leu Phe Gln Asp Val His Val Met Ile Phe Val Gln Phe
1 5 10 15

<210> 107
<211> 15
<212> PRT
<213> Homo sapiens

<220>

<223> Rh50 GP Residues 61-75

<400> 107
Ile Phe Val Gly Phe Gly Phe Leu Met Thr Phe Leu Lys Lys Tyr
1 5 10 15

<210> 108

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> Rh50 GP Residues 71-85

<400> 108
Phe Leu Lys Lys Tyr Gly Phe Ser Ser Val Gly Ile Asn Leu Leu
1 5 10 15

<210> 109

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> Rh50 GP Residues 81-95

<400> 109
Gly Ile Asn Leu Leu Val Ala Ala Leu Gly Leu Gln Trp Gly Thr
1 5 10 15

<210> 110

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> Rh50 GP Residues 91-105

<400> 110
Leu Gln Trp Gly Thr Ile Val Gln Gly Ile Leu Gln Ser Gln Gly
1 5 10 15

<210> 111

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> Rh50 GP Residues 101-115

<400> 111
Leu Gln Ser Gln Gly Gln Lys Phe Asn Ile Gly Ile Lys Asn Met
1 5 10 15

<210> 112

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> Rh50 GP Residues 111-125

<400> 112

Gly Ile Lys Asn Met Ile Asn Ala Asp Phe Ser Ala Ala Thr Val
1 5 10 15

<210> 113

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> Rh50 GP Residues 121-135

<400> 113

Ser Ala Ala Thr Val Leu Ile Ser Phe Gly Ala Val Leu Gly Lys
1 5 10 15

<210> 114

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> Rh50 GP Residues 131-145

<400> 114

Ala Val Leu Gly Lys Thr Ser Pro Thr Gln Met Leu Ile Met Thr
1 5 10 15

<210> 115

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> Rh50 GP Residues 141-155

<400> 115

Met Leu Ile Met Thr Ile Leu Glu Ile Val Phe Phe Ala His Asn
1 5 10 15

<210> 116

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> Rh50 GP Residues 151-165

<400> 116

Phe Phe Ala His Asn Glu Tyr Leu Val Ser Glu Ile Phe Lys Ala
1 5 10 15

<210> 117

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> Rh50 GP Residues 161-175

<400> 117

Glu	Ile	Phe	Lys	Ala	Ser	Asp	Ile	Gly	Ala	Ser	Met	Thr	Ile	His
1				5					10				15	

<210> 118

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> Rh50 GP Residues 171-185

<400> 118

Ser	Met	Thr	Ile	His	Ala	Phe	Gly	Ala	Tyr	Phe	Gly	Leu	Ala	Val
1					5				10			15		

<210> 119

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> Rh50 GP Residues 181-195

<400> 119

Phe	Gly	Leu	Ala	Val	Ala	Gly	Ile	Leu	Tyr	Arg	Ser	Gly	Leu	Arg
1					5				10			15		

<210> 120

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> Rh50 GP Residues 191-205

<400> 120

Arg	Ser	Gly	Leu	Arg	Lys	Gly	His	Glu	Asn	Glu	Glu	Ser	Ala	Tyr
1					5				10			15		

<210> 121

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> Rh50 GP Residues 201-215

<400> 121
Glu Glu Ser Ala Tyr Tyr Ser Asp Leu Phe Ala Met Ile Gly Thr
1 5 10 15

<210> 122
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 211-225

<400> 122
Ala Met Ile Gly Thr Leu Phe Leu Trp Met Phe Trp Pro Ser Phe
1 5 10 15

<210> 123
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 221-235

<400> 123
Phe Trp Pro Ser Phe Asn Ser Ala Ile Ala Glu Pro Gly Asp Lys
1 5 10 15

<210> 124
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 231-245

<400> 124
Glu Pro Gly Asp Lys Gln Cys Arg Ala Ile Val Asp Thr Tyr Phe
1 5 10 15

<210> 125
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 241-255

<400> 125
Val Asp Thr Tyr Phe Ser Leu Ala Ala Cys Val Leu Thr Ala Phe
1 5 10 15

<210> 126
<211> 15
<212> PRT

<213> Homo sapiens

<220>

<223> Rh50 GP Residues 251-265

<400> 126

Val	Leu	Thr	Ala	Phe	Ala	Phe	Ser	Ser	Leu	Val	Glu	His	Arg	Gly
1				5					10				15	

<210> 127

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> Rh50 GP Residues 261-275

<400> 127

Val	Glu	His	Arg	Gly	Lys	Leu	Asn	Met	Val	His	Ile	Gln	Asn	Ala
1				5					10				15	

<210> 128

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> Rh50 GP Residues 271-285

<400> 128

His	Ile	Gln	Asn	Ala	Thr	Leu	Ala	Gly	Gly	Val	Ala	Val	Gly	Thr
1				5					10				15	

<210> 129

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> Rh50 GP Residues 281-295

<400> 129

Val	Ala	Val	Gly	Thr	Cys	Ala	Asp	Met	Ala	Ile	His	Pro	Phe	Gly
1				5					10				15	

<210> 130

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> Rh50 GP Residues 291-305

<400> 130

Ile	His	Pro	Phe	Gly	Ser	Met	Ile	Ile	Gly	Ser	Ile	Ala	Gly	Met
1				5					10				15	

<210> 131
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 301-315

<400> 131
Ser Ile Ala Gly Met Val Ser Val Leu Gly Tyr Lys Phe Leu Thr
1 5 10 15

<210> 132
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 311-325

<400> 132
Tyr Lys Phe Leu Thr Pro Leu Phe Thr Thr Lys Leu Arg Ile His
1 5 10 15

<210> 133
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 321-335

<400> 133
Lys Leu Arg Ile His Asp Thr Cys Gly Val His Asn Leu His Gly
1 5 10 15

<210> 134
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 331-345

<400> 134
His Asn Leu His Gly Leu Pro Gly Val Val Gly Gly Leu Ala Gly
1 5 10 15

<210> 135
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 341-355

<400> 135
Gly Gly Leu Ala Gly Ile Val Ala Val Ala Met Gly Ala Ser Asn
1 5 10 15

<210> 136
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 351-365

<400> 136
Met Gly Ala Ser Asn Thr Ser Met Ala Met Gln Ala Ala Ala Leu
1 5 10 15

<210> 137
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 361-375

<400> 137
Gln Ala Ala Ala Leu Gly Ser Ser Ile Gly Thr Ala Val Val Gly
1 5 10 15

<210> 138
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 371-385

<400> 138
Thr Ala Val Val Gly Gly Leu Met Thr Gly Leu Ile Leu Lys Leu
1 5 10 15

<210> 139
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<223> Rh50 GP Residues 381-395

<400> 139
Leu Ile Leu Lys Leu Pro Leu Trp Gly Gln Pro Ser Asp Gln Asn
1 5 10 15

<210> 140
<211> 15
<212> PRT
<213> Homo sapiens

<220>

<223> Rh50 GP Residues 391-405

<400> 140

Pro	Ser	Asp	Gln	Asn	Cys	Tyr	Asp	Asp	Ser	Val	Tyr	Trp	Lys	Val
1					5				10				15	

<210> 141

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> Rh50 GP Residues 395-409

<400> 141

Asn	Cys	Tyr	Asp	Asp	Ser	Val	Tyr	Trp	Lys	Val	Pro	Lys	Thr	Arg
1					5				10			15		

<210> 142

<211> 16

<212> PRT

<213> Homo sapiens

<220>

<223> BR

<400> 142

Ser	Lys	Tyr	Pro	Asn	Cys	Ala	Tyr	Lys	Thr	Thr	Gln	Ala	Asn	Lys	His
1					5				10			15			

<210> 143

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> AV2

<400> 143

Thr	Ile	Pro	Glu	Gln	Ser	Phe	Gln	Gly	Ser	Pro	Ser	Ala	Asp	Thr
1					5				10			15		

<210> 144

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> AV4

<400> 144

Thr	Val	Lys	Ala	Asp	Phe	Glu	Phe	Ser	Ser	Ala	Pro	Ala	Pro	Asp
1					5				10			15		

<210> 145
 <211> 15
 <212> PRT
 <213> Homo sapiens

<220>
 <223> AV6

<400> 145
 Thr Val Glu Glu Arg Gln Gln Phe Gly Glu Leu Pro Val Ser Glu
 1 5 10 15

<210> 146
 <211> 16
 <212> PRT
 <213> Homo sapiens

<220>
 <223> P23

<400> 146
 Glu Leu Lys Ile Ile Ser Arg Cys Gln Val Cys Met Lys Lys Arg His
 1 5 10 15

<210> 147
 <211> 13
 <212> PRT
 <213> Homo sapiens

<220>
 <223> HA

<400> 147
 Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr
 1 5 10

<210> 148
 <211> 417
 <212> PRT
 <213> Homo sapiens

<220>
 <223> RhCE Residues 111-125

<400> 148
 Met Ser Ser Lys Tyr Pro Arg Ser Val Arg Arg Cys Leu Pro Leu Cys
 1 5 10 15

Ala Leu Thr Leu Glu Ala Ala Leu Ile Leu Leu Phe Tyr Phe Phe Thr
 20 25 30

His Tyr Asp Ala Ser Leu Glu Asp Gln Lys Gly Leu Val Ala Ser Tyr
 35 40 45

Gln Val Gly Gln Asp Leu Thr Val Met Ala Ala Ile Gly Leu Gly Phe
 50 55 60

Leu Thr Ser Ser Phe Arg Arg His Ser Trp Ser Ser Val Ala Phe Asn

65

70

75

80

Leu Phe Met Leu Ala Leu Gly Val Gln Trp Ala Ile Leu Leu Asp Gly
 85 90 95

Phe Leu Ser Gln Phe Pro Ser Gly Lys Val Val Ile Thr Leu Phe Ser
 100 105 110

Ile Arg Leu Ala Thr Met Ser Ala Met Ser Val Leu Ile Ser Ala Gly
 115 120 125

Ala Val Leu Gly Lys Val Asn Leu Ala Gln Leu Val Val Met Val Leu
 130 135 140

Val Glu Val Thr Ala Leu Gly Thr Leu Arg Met Val Ile Ser Asn Ile
 145 150 155 160

Phe Asn Thr Asp Tyr His Met Asn Leu Arg His Phe Tyr Val Phe Ala
 165 170 175

Ala Tyr Phe Gly Leu Thr Val Ala Trp Cys Leu Pro Lys Pro Leu Pro
 180 185 190

Lys Gly Thr Glu Asp Asn Asp Gln Arg Ala Thr Ile Pro Ser Leu Ser
 195 200 205

Ala Met Leu Gly Ala Leu Phe Leu Trp Met Phe Trp Pro Ser Val Asn
 210 215 220

Ser Pro Leu Leu Arg Ser Pro Ile Gln Arg Lys Asn Ala Met Phe Asn
 225 230 235 240

Thr Tyr Tyr Ala Leu Ala Val Ser Val Val Thr Ala Ile Ser Gly Ser
 245 250 255

Ser Leu Ala His Pro Gln Arg Lys Ile Ser Met Thr Tyr Val His Ser
 260 265 270

Ala Val Leu Ala Gly Gly Val Ala Val Gly Thr Ser Cys His Leu Ile
 275 280 285

Pro Ser Pro Trp Leu Ala Met Val Leu Gly Leu Val Ala Gly Leu Ile
 290 295 300

Ser Ile Gly Gly Ala Lys Cys Leu Pro Val Cys Cys Asn Arg Val Leu
 305 310 315 320

Gly Ile His His Ile Ser Val Met His Ser Ile Phe Ser Leu Leu Gly
 325 330 335

Leu Leu Gly Glu Ile Thr Tyr Ile Val Leu Leu Val Leu His Thr Val
 340 345 350

Trp Asn Gly Asn Gly Met Ile Gly Phe Gln Val Leu Leu Ser Ile Gly
 355 360 365

Glu Leu Ser Leu Ala Ile Val Ile Ala Leu Thr Ser Gly Leu Leu Thr
 370 375 380

Gly Leu Leu Leu Asn Leu Lys Ile Trp Lys Ala Pro His Val Ala Lys
 385 390 395 400

Tyr Phe Asp Asp Gln Val Phe Trp Lys Phe Pro His Leu Ala Val Gly
 405 410 415

Phe

<210> 149
 <211> 417
 <212> PRT
 <213> Homo sapiens

<220>
 <223> RhCe Residues 121-135

<400> 149
 Met Ser Ser Lys Tyr Pro Arg Ser Val Arg Arg Cys Leu Pro Leu Cys
 1 5 10 15

Ala Leu Thr Leu Glu Ala Ala Leu Ile Leu Leu Phe Tyr Phe Phe Thr
 20 25 30

His Tyr Asp Ala Ser Leu Glu Asp Gln Lys Gly Leu Val Ala Ser Tyr
 35 40 45

Gln Val Gly Gln Asp Leu Thr Val Met Ala Ala Ile Gly Leu Gly Phe
 50 55 60

Leu Thr Ser Ser Phe Arg Arg His Ser Trp Ser Ser Val Ala Phe Asn
 65 70 75 80

Leu Phe Met Leu Ala Leu Gly Val Gln Trp Ala Ile Leu Leu Asp Gly
 85 90 95

Phe Leu Ser Gln Phe Pro Ser Gly Lys Val Val Ile Thr Leu Phe Ser
 100 105 110

Ile Arg Leu Ala Thr Met Ser Ala Met Ser Val Leu Ile Ser Ala Gly
 115 120 125

Ala Val Leu Gly Lys Val Asn Leu Ala Gln Leu Val Val Met Val Leu
 130 135 140

Val Glu Val Thr Ala Leu Gly Thr Leu Arg Met Val Ile Ser Asn Ile
 145 150 155 160

Phe Asn Thr Asp Tyr His Met Asn Leu Arg His Phe Tyr Val Phe Ala
 165 170 175

Ala Tyr Phe Gly Leu Thr Val Ala Trp Cys Leu Pro Lys Pro Leu Pro
 180 185 190

Lys Gly Thr Glu Asp Asn Asp Gln Arg Ala Thr Ile Pro Ser Leu Ser
 195 200 205

Ala Met Leu Gly Ala Leu Phe Leu Trp Met Phe Trp Pro Ser Val Asn
 210 215 220

Ser Ala Leu Leu Arg Ser Pro Ile Gln Arg Lys Asn Ala Met Phe Asn
 225 230 235 240

Thr Tyr Tyr Ala Leu Ala Val Ser Val Val Thr Ala Ile Ser Gly Ser
 245 250 255

Ser Leu Ala His Pro Gln Arg Lys Ile Ser Met Thr Tyr Val His Ser
 260 265 270

Ala Val Leu Ala Gly Gly Val Ala Val Gly Thr Ser Cys His Leu Ile
 275 280 285

Pro Ser Pro Trp Leu Ala Met Val Leu Gly Leu Val Ala Gly Leu Ile
 290 295 300

Ser Ile Gly Gly Ala Lys Cys Leu Pro Val Cys Cys Asn Arg Val Leu
 305 310 315 320

Gly Ile His His Ile Ser Val Met His Ser Ile Phe Ser Leu Leu Gly
 325 330 335

Leu Leu Gly Glu Ile Thr Tyr Ile Val Leu Leu Val Leu His Thr Val
 340 345 350

Trp Asn Gly Asn Gly Met Ile Gly Phe Gln Val Leu Leu Ser Ile Gly
 355 360 365

Glu Leu Ser Leu Ala Ile Val Ile Ala Leu Thr Ser Gly Leu Leu Thr
 370 375 380

Gly Leu Leu Leu Asn Leu Lys Ile Trp Lys Ala Pro His Val Ala Lys
 385 390 395 400

Tyr Phe Asp Asp Gln Val Phe Trp Lys Phe Pro His Leu Ala Val Gly
 405 410 415

Phe

<210> 150
 <211> 417
 <212> PRT
 <213> Homo sapiens

<220>
 <223> RhcE Residues 131-145

<400> 150
 Met Ser Ser Lys Tyr Pro Arg Ser Val Arg Arg Cys Leu Pro Leu Trp
 1 5 10 15

Ala Leu Thr Leu Glu Ala Ala Leu Ile Leu Leu Phe Tyr Phe Phe Thr
 20 25 30

His Tyr Asp Ala Ser Leu Glu Asp Gln Lys Gly Leu Val Ala Ser Tyr
 35 40 45

Gln Val Gly Gln Asp Leu Thr Val Met Ala Ala Leu Gly Leu Gly Phe
 50 55 60

Leu Thr Ser Asn Phe Arg Arg His Ser Trp Ser Ser Val Ala Phe Asn
 65 70 75 80

Leu Phe Met Leu Ala Leu Gly Val Gln Trp Ala Ile Leu Leu Asp Gly

85

90

95

Phe Leu Ser Gln Phe Pro Pro Gly Lys Val Val Ile Thr Leu Phe Ser
100 105 110

Ile Arg Leu Ala Thr Met Ser Ala Met Ser Val Leu Ile Ser Ala Gly
115 120 125

Ala Val Leu Gly Lys Val Asn Leu Ala Gln Leu Val Val Met Val Leu
130 135 140

Val Glu Val Thr Ala Leu Gly Thr Leu Arg Met Val Ile Ser Asn Ile
145 150 155 160

Phe Asn Thr Asp Tyr His Met Asn Leu Arg His Phe Tyr Val Phe Ala
165 170 175

Ala Tyr Phe Gly Leu Thr Val Ala Trp Cys Leu Pro Lys Pro Leu Pro
180 185 190

Lys Gly Thr Glu Asp Asn Asp Gln Arg Ala Thr Ile Pro Ser Leu Ser
195 200 205

Ala Met Leu Gly Ala Leu Phe Leu Trp Met Phe Trp Pro Ser Val Asn
210 215 220

Ser Pro Leu Leu Arg Ser Pro Ile Gln Arg Lys Asn Ala Met Phe Asn
225 230 235 240

Thr Tyr Tyr Ala Leu Ala Val Ser Val Val Thr Ala Ile Ser Gly Ser
245 250 255

Ser Leu Ala His Pro Gln Arg Lys Ile Ser Met Thr Tyr Val His Ser
260 265 270

Ala Val Leu Ala Gly Gly Val Ala Val Gly Thr Ser Cys His Leu Ile
275 280 285

Pro Ser Pro Trp Leu Ala Met Val Leu Gly Leu Val Ala Gly Leu Ile
290 295 300

Ser Ile Gly Gly Ala Lys Cys Leu Pro Val Cys Cys Asn Arg Val Leu
305 310 315 320

Gly Ile His His Ile Ser Val Met His Ser Ile Phe Ser Leu Leu Gly
325 330 335

Leu Leu Gly Glu Ile Thr Tyr Ile Val Leu Leu Val Leu His Thr Val
340 345 350

Trp Asn Gly Asn Gly Met Ile Gly Phe Gln Val Leu Leu Ser Ile Gly
355 360 365

Glu Leu Ser Leu Ala Ile Val Ile Ala Leu Thr Ser Gly Leu Leu Thr
370 375 380

Gly Leu Leu Leu Asn Leu Lys Ile Trp Lys Ala Pro His Val Ala Lys
385 390 395 400

Tyr Phe Asp Asp Gln Val Phe Trp Lys Phe Pro His Leu Ala Val Gly
405 410 415

Phe

<210> 151

<211> 417

<212> PRT

<213> Homo sapiens

<220>

<223> RhD Residues 141-155

<400> 151

Met Ser Ser Lys Tyr Pro Arg Ser Val Arg Arg Cys Leu Pro Leu Trp
1 5 10 15Ala Leu Thr Leu Glu Ala Ala Leu Ile Leu Leu Phe Tyr Phe Phe Thr
20 25 30His Tyr Asp Ala Ser Leu Glu Asp Gln Lys Gly Leu Val Ala Ser Tyr
35 40 45Gln Val Gly Gln Asp Leu Thr Val Met Ala Ala Ile Gly Leu Gly Phe
50 55 60Leu Thr Ser Ser Phe Arg Arg His Ser Trp Ser Ser Val Ala Phe Asn
65 70 75 80Leu Phe Met Leu Ala Leu Gly Val Gln Trp Ala Ile Leu Leu Asp Gly
85 90 95Phe Leu Ser Gln Phe Pro Ser Gly Lys Val Val Ile Thr Leu Phe Ser
100 105 110Ile Arg Leu Ala Thr Met Ser Ala Leu Ser Val Leu Ile Ser Val Asp
115 120 125Ala Val Leu Gly Lys Val Asn Leu Ala Gln Leu Val Val Met Val Leu
130 135 140Val Glu Val Thr Ala Leu Gly Asn Leu Arg Met Val Ile Ser Asn Ile
145 150 155 160Phe Asn Thr Asp Tyr His Met Asn Met Met His Ile Tyr Val Phe Ala
165 170 175Ala Tyr Phe Gly Leu Ser Val Ala Trp Cys Leu Pro Lys Pro Leu Pro
180 185 190Glu Gly Thr Glu Asp Asn Asp Gln Thr Ala Thr Ile Pro Ser Leu Ser
195 200 205Ala Met Leu Gly Ala Leu Phe Leu Trp Ile Phe Trp Pro Ser Phe Asn
210 215 220Ser Ala Leu Leu Arg Ser Pro Ile Glu Arg Lys Asn Ala Val Phe Asn
225 230 235 240Thr Tyr Tyr Ala Val Ala Val Ser Val Val Thr Ala Ile Ser Gly Ser
245 250 255

Ser Leu Ala His Pro Gln Gly Lys Ile Ser Lys Thr Tyr Val His Ser
 260 265 270

Ala Val Leu Ala Gly Gly Val Ala Val Gly Thr Ser Cys His Leu Ile
 275 280 285

Pro Ser Pro Trp Leu Ala Met Val Leu Gly Leu Val Ala Gly Leu Ile
 290 295 300

Ser Val Gly Gly Ala Lys Tyr Leu Pro Gly Cys Cys Asn Arg Val Leu
 305 310 315 320

Gly Ile Pro His Ser Ser Ile Met Gly Tyr Asn Phe Ser Leu Leu Gly
 325 330 335

Leu Leu Gly Glu Ile Ile Tyr Ile Val Leu Leu Val Leu Asp Thr Val
 340 345 350

Gly Ala Gly Asn Gly Met Ile Gly Phe Gln Val Leu Leu Ser Ile Gly
 355 360 365

Glu Leu Ser Leu Ala Ile Val Ile Ala Leu Thr Ser Gly Leu Leu Thr
 370 375 380

Gly Leu Leu Leu Asn Leu Lys Ile Trp Lys Ala Pro His Glu Ala Lys
 385 390 395 400

Tyr Phe Asp Asp Gln Val Phe Trp Lys Phe Pro His Leu Ala Val Gly
 405 410 415

Phe

<210> 152

<211> 417

<212> PRT

<213> Homo sapiens

<220>

<223> RhCe Residues 151-165

<400> 152

Met Ser Ser Lys Tyr Pro Arg Ser Val Arg Arg Cys Leu Pro Leu Trp
 1 5 10 15

Ala Leu Thr Leu Glu Ala Ala Leu Ile Leu Leu Phe Tyr Phe Phe Thr
 20 25 30

His Tyr Asp Ala Ser Leu Glu Asp Gln Lys Gly Leu Val Ala Ser Tyr
 35 40 45

Gln Val Gly Gln Asp Leu Thr Val Met Ala Ala Leu Gly Leu Gly Phe
 50 55 60

Leu Thr Ser Asn Phe Arg Arg His Ser Trp Ser Ser Val Ala Phe Asn
 65 70 75 80

Leu Phe Met Leu Ala Leu Gly Val Gln Trp Ala Ile Leu Leu Asp Gly
 85 90 95

Phe Leu Ser Gln Phe Pro Pro Gly Lys Val Val Ile Thr Leu Phe Ser

100

105

110

Ile Arg Leu Ala Thr Met Ser Ala Met Ser Val Leu Ile Ser Ala Gly
 115 120 125

Ala Val Leu Gly Lys Val Asn Leu Ala Gln Leu Val Val Met Val Leu
 130 135 140

Val Glu Val Thr Ala Leu Gly Thr Leu Arg Met Val Ile Ser Asn Ile
 145 150 155 160

Phe Asn Thr Asp Tyr His Met Asn Leu Arg His Phe Tyr Val Phe Ala
 165 170 175

Ala Tyr Phe Gly Leu Thr Val Ala Trp Cys Leu Pro Lys Pro Leu Pro
 180 185 190

Lys Gly Thr Glu Asp Asn Asp Gln Arg Ala Thr Ile Pro Ser Leu Ser
 195 200 205

Ala Met Leu Gly Ala Leu Phe Leu Trp Met Phe Trp Pro Ser Val Asn
 210 215 220

Ser Ala Leu Leu Arg Ser Pro Ile Gln Arg Lys Asn Ala Met Phe Asn
 225 230 235 240

Thr Tyr Tyr Ala Leu Ala Val Ser Val Val Thr Ala Ile Ser Gly Ser
 245 250 255

Ser Leu Ala His Pro Gln Arg Lys Ile Ser Met Thr Tyr Val His Ser
 260 265 270

Ala Val Leu Ala Gly Gly Val Ala Val Gly Thr Ser Cys His Leu Ile
 275 280 285

Pro Ser Pro Trp Leu Ala Met Val Leu Gly Leu Val Ala Gly Leu Ile
 290 295 300

Ser Ile Gly Gly Ala Lys Cys Leu Pro Val Cys Cys Asn Arg Val Leu
 305 310 315 320

Gly Ile His His Ile Ser Val Met His Ser Ile Phe Ser Leu Leu Gly
 325 330 335

Leu Leu Gly Glu Ile Thr Tyr Ile Val Leu Leu Val Leu His Thr Val
 340 345 350

Trp Asn Gly Asn Gly Met Ile Gly Phe Gln Val Leu Leu Ser Ile Gly
 355 360 365

Glu Leu Ser Leu Ala Ile Val Ile Ala Leu Thr Ser Gly Leu Leu Thr
 370 375 380

Gly Leu Leu Leu Asn Leu Lys Ile Trp Lys Ala Pro His Val Ala Lys
 385 390 395 400

Tyr Phe Asp Asp Gln Val Phe Trp Lys Phe Pro His Leu Ala Val Gly
 405 410 415

Phe